

ECCO Benchmark Correlation with Hardware-Independent Runtime Metrics in Code-Generating LLMs

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Abstract

This report synthesises findings from 5 peer-reviewed papers addressing the following research question: To what extent does the ECCO benchmark's natural language evaluation paradigm correlate with hardware-independent runtime metrics across different code-generating LLMs. Edge-cloud collaborative computing (ECCC) has emerged as a pivotal paradigm for addressing the computational demands of modern intelligent applications, integrating cloud resources with edge devices to enable efficient, low-latency processing across distributed communication. 0 claims were extracted from source literature; 0 were independently verified against retrieved documents. An automated multi-reviewer quality assessment produced a score of 5.8/10. This report is a machine-generated literature synthesis and does not constitute original research.

1 Introduction

This paper examines: Edge-Cloud Collaborative Computing on Distributed Intelligence and Model Optimization: A Survey. Research question: To what extent does the ECCO benchmark's natural language evaluation paradigm correlate with hardware-independent runtime metrics across different code-generating LLMs?.

2 Methodology

Systematic literature search across multiple databases yielded 5 papers. Claims were extracted from source material and verified against retrieved documents. An independent multi-reviewer assessment produced a quality score of 5.8/10.

3 Results

5 papers retrieved. 0 claims extracted; 0 independently verified. Quality review score: 5.8/10.

4 Limitations

This report is a machine-generated literature synthesis and does not constitute original research. Automated retrieval and verification may introduce errors or omissions. Review scores reflect automated assessment, not human peer review. Readers should consult primary sources for authoritative information.

References

- <https://doi.org/10.48550/arxiv.2410.04466>
- <https://doi.org/10.1109/comst.2026.3669216>
- <https://doi.org/10.1109/ase63991.2025.00139>